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APPLICATION NO. FILING DATE FIR		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/451,167	11/30/1999	MATTI UUSIMAKI	944-001.005	8699
4955 7:	590 04/23/2003			
	SOLA VAN DER SLUY	EXAMINER		
ADOLPHSON BRADFORD C	, LLP GREEN BUILDING 5	ABDULSELAM, ABBAS I		
755 MAIN STE MONROE, CT	REET, P O BOX 224 06468	ART UNIT	PAPER NUMBER	
,			2674	
			DATE MAILED: 04/23/2003	18

Please find below and/or attached an Office communication concerning this application or proceeding.

7

		Application No. Applicant(s)		Applicant(s)			
Office Action Summary		09/451,167		UUSIMAKI, MATTI			
		Examiner		Art Unit			
		Abbas I Abdulse		2674			
Period f	The MAILING DATE of this communication apports reply	pears on the cove	r sheet with the c	orrespondence address			
THE - Extra afte - If th - If N - Fail - Any	HORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a repl O period for reply is specified above, the maximum statutory period of the toreply within the set or extended period for reply will, by statute to reply received by the Office later than three months after the mailing the patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howeverther within the statutory minus will apply and will expire to cause the application to	ever, may a reply be tim nimum of thirty (30) days SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. C (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on 04 I	February 2003 .					
2a)□	This action is FINAL . 2b)⊠ Th	nis action is non-fi	nal.				
3)	Since this application is in condition for allowationsed in accordance with the practice under tion of Claims						
·	Claim(s) <u>1-31</u> is/are pending in the application	1					
الحكار ٠	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>1-31</u> is/are rejected.						
	☐ Claim(s) is/are objected to.						
_	8) Claim(s) are subject to restriction and/or election requirement.						
-	tion Papers						
9)[The specification is objected to by the Examine	r.					
10)[The drawing(s) filed on is/are: a) accept	pted or b)☐ object	ed to by the Exar	miner.			
-	Applicant may not request that any objection to the	e drawing(s) be hel	d in abeyance. Se	ee 37 CFR 1.85(a).			
11)	The proposed drawing correction filed on	_ is: a)□ approve	ed b)□ disappro	ved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority	under 35 U.S.C. §§ 119 and 120			•			
13)	Acknowledgment is made of a claim for foreign	n priority under 35	5 U.S.C. § 119(a))-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
*	3. Copies of the certified copies of the prio application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule	17.2(a)).	-			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
_	a) The translation of the foreign language pro Acknowledgment is made of a claim for domest	visional applicati	on has been rec	eived.			
Attachmer	•	,					
1) 🔀 Noti 2) 🔲 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s) _	4) 5) 6)		(PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections 35 U.S.C. 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Colonna et al. (USPN 6115620) in view of Kim (USPN 6397078).

Regarding claims 1 and 4, Colonna teaches about a portable communication device (100), hinge assembly (214), first housing element (202), and second housing element (204) that is movable relative to first housing. See column 3, lines 61-67, and column 4, line 16. In addition Colonna teaches about a sensor producing a position signal to indicate the position of the second housing element relative to the first housing element. See column 2, lines 45-51 and Fig 2..

However, Colonna does not teach a touch sensitive circuitry providing the position of a contact force applied by the user on the moveable housing element. Kim on the other hand teaches the keypad (16) performing sliding and is electrically connected to the support member (18) which includes operating electronics by contacts (19) on the rear of the keypad and electrical contacts on the front of the electrical support member (18). See Fig (3-5) and col. 2, lines 47-61.

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to modify Colonna's portable communication device to adapt Kim's slidable keypad (16). One would have been motivated in view of the suggestion in Kim that the keypad (16) as

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configured in Fig 3 including the contacts and the electronics associated with it satisfy the desired circuitry with respect to the contact force. The use of keypad helps the function a mobile PDA device.

Regarding claims 2-3 and 28, it has been discussed above.

Regarding claims 5, 9, 18, 27 and 31, Kim teaches the PDA device (10) including base assembly (12), slidable keypad (16), contacts and keys input buttons (22, 23, 28). See Fig 3.

Regarding claims 6 and 7, Colonna teaches about a controller (106), user interface (110) with respect to RF signals. See column 2, lines 65-67, and column 3, lines 1-7.

Regarding claim 8, Kim teaches the use of touch sensitive screen (27) as well as a keypad (16) which is slid out along space rails (17), and a cover (13) along with the associated switch the type of which can be electrical, mechanical and magnetic. See col.2, lines 19-61.

Regarding claims 10 and 29, Colonna teaches about different types of input devices as wells as different electronic devices such as radiotelephone and PDA. See column 2, lines 60-65.

Also see column Fig 2 and 3.

Regarding claims 11, 21-26 and 30, see Colonna's Fig 2 (206, 208).

Regarding claims 12 and 16, Colonna teaches the use portable communication device including the use of speaker phone mode which is illustrated in terms of a switching process. See col. 1, lines 5-11.

Regarding claim 13, Colonna's teaches about sensor circuitry. See Fig 8.

Regarding claims 14, 17, and 19-20, Colonna teaches about speaker (10) and radiotelephone system. See Fig 12. Colonna also teaches about, keypad (206) along with

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controller (106), user interface (110), and 19 and transmission of RF signals data including voice and control signals. See Fig 1, and 2.

Regarding claim 15, see Colonna's's Fig 3.

Conclusion

2. The prior art made of record and not relied upon is considered to applicant's disclosure.

The following arts are cited for further reference.

U.S. Pat No. 6,535,749 Iwata et al.

U.S. Pat No. 6,532,147 to Christ

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2011101114111001. 02/ 731,10

3. Any inquiry concerning this communication or earlier communication from the examiner

should be directed to Abbas Abdulselam whose telephone number is (703) 305-8591. The

examiner can normally be reached on Monday through Friday (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richard Hjerpe, can be reached at (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of patents and Trademarks

Washington, D.C. 20231

or faxed to:

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(703) 872-9314

Hand delivered responses should be brought to crustal park II, Crystal Drive, Arlington,

VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Technology center 2600 customer Service office whose telephone

number is (703) 306-0377.

Abbas Abdulselam

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Examiner

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RICHARD HJERPE RVISORY PATENT EXAMINER

TIGHNOLOGY CENTER 2600